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## COMPLIANCE SECTION



## WATER QUALITY PROGRAM & PLANNING

| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. | | Program #4500: Surface Water Regulation | |
|---|---|---|---|
| **TASK/ GRANT** | **OUTPUT DESCRIPTION** | **EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL** | **RESPONSIBLE SECTION/ STAFF** |
| **1.3.4** | **TASK: Surface Water Program Development**<br><br>Perform support activities for surface water program including development of program procedures and policies.<br><br>**DELIVERABLES:** | | |
| PPG<br><br>NPS in PPG | 1) Finalize implementation procedures for anti-degradation, biocriteria, bottom deposits and fish consumption.<br>a) Antidegradation<br>i) Finalize implementation procedures<br>b) Fish consumption<br>i) Initiate public process<br>ii) Finalize implementation procedures<br>(NPS Strategies 3.A.3) | T =<br><br><br><br>ai) 12/13<br><br>bi) 12/13<br>bii) 6/14 | Surface Water |
| PPG | 2) Initiate triennial review.<br>a) Begin stakeholder outreach<br>b) Complete triennial review | T =<br>a) 5/13<br>b) 4/14 | Surface Water |
| PPG<br><br>NPS in PPG | 3) Revisit Lakes Narrative Nutrient Standards<br>a) Complete literature and data review, update data analysis, and refine matrix relationships<br>b) Determine if current matrix approach requires modification.<br>(NPS Strategies 3.A.3) | T =<br>a) 6/13<br><br>b) 8/13 | Surface Water |

Dependent upon governor's approval to pursue rulemaking

| FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| WQFF-AZPDES NPS in PPG {Match} | 0.17 | 11,466 | 5,045 | 7,861 | 24,372 |
| NPS in PPG | 0.75 | 37,824 | 16,643 | 25,932 | 80,398 |
| PPG | 0.51 | 22,501 | 9,900 | 15,426 | 47,828 |
| **TOTALS** | **1.43** | **71,791** | **31,588** | **49,219** | **152,598** |

| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. | | Program #4500: Surface Water Regulation | |
|---|---|---|---|
| **TASK/ GRANT** | **OUTPUT DESCRIPTION** | **EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL** | **RESPONSIBLE SECTION/ STAFF** |
| **1.3.5** | **TASK: Ambient Monitoring Program**<br><br>Conduct ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants. Monitoring to include targeted characterization, planning and/or probabilistic sites in support of 305(b) assessment process.<br><br>**DELIVERABLES:** | | |
| PPG<br><br>NPS in PPG | 1) Ambient monitoring<br>a) Conduct ambient stream and lake monitoring per FY 14 sampling and analysis plan throughout Arizona.<br>b) Prepare FY 15 sampling and analysis plan for:<br>i) rivers and streams.<br>ii) lakes<br>(NPS Strategies 3.A.1) | T =<br>a) Quarterly<br><br>b) 5/14 | Surface Water |
| 106 Mon-3<br><br>NPS in PPG | 2) Fish tissue and sediment sampling program<br>a) Conduct fish tissue and sediment sampling on Arizona lakes and reservoirs for presence of mercury to support fish consumption advisory programs per FY14 sampling plan.<br>b) Prepare FY 15 sampling plan for fish tissue monitoring.<br>(NPS Strategies 3.A.1) | T =<br>a) Quarterly<br><br>b) 2/14 | Surface Water |
| NPS PA 1 | 3) Complete groundwater basins reports for:<br>a) Harquahala<br>b) Tonto<br>(NPS Strategies 3.A.1) | T =<br>a) 12/13<br>b) 6/14 | Surface Water |

| FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| WQFF-AZPDES NPS in PPG {Match} | 0.17 | 4,554 | 2,004 | 3,122 | 9,680 |
| WQARF | 0.58 | 21,417 | 9,423 | 14,683 | 45,524 |
| WQARF NPS in PPG {Match} | 1.57 | 75,935 | 33,411 | 52,060 | 161,406 |
| WQARF NPS Proj 24 [Match] | 0.84 | 38,437 | 16,912 | 26,352 | 81,701 |
| 106 Monitoring - 3 | 0.83 | 35,210 | 15,492 | 24,139 | 74,842 |
| NPS in PPG | 0.96 | 48,175 | 21,197 | 33,028 | 102,400 |
| PPG | 0.84 | 34,201 | 15,048 | 23,448 | 72,697 |
| NPS PA I | 0.17 | 11,466 | 5,045 | 7,861 | 24,372 |
| **Contracts: USGS** (PPG) | | | | | **85,000** |
| **Contracts: Ambient Sampling** (NPS in PPG) | | | | | **40,000** |
| **TOTALS** | **5.96** | **269,395** | **118,532** | **184,693** | **697,622** |

| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. | | Program #4500: Surface Water Regulation | |
|---|---|---|---|
| **TASK/ GRANT** | **OUTPUT DESCRIPTION** | **EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL** | **RESPONSIBLE SECTION/ STAFF** |
| **1.3.6** | **TASK: 106 Monitoring**<br><br>Monitoring Initiative (MI) program for implementation of AZ approved comprehensive monitoring strategy.<br><br>**DELIVERABLES:** | | |
| 106 Mon-3<br><br>NPS in PPG | 1) Physical integrity<br>a) Evaluate the effectiveness of using relative bed stability as a physical integrity tool by stream type.<br>i) Submit final report to EPA<br>(NPS Strategies 3.A.3) | T =<br><br><br><br>ai) 6/14 | Surface Water |
| 106 Mon-3<br><br>NPS in PPG | 2) Intermittent streams<br>a) Complete the final report summarizing the results of the intermittent stream sampling and evaluating the effectiveness of using the perennial IBI on intermittent streams to develop intermittent stream biocriteria for water quality standards. Send final report to EPA.<br>(NPS Strategies 3.A.1 & 3.A.3) | T = 11/13 | Surface Water |
| 106 Mon-3<br><br>NPS in PPG | 3) Conduct nutrient monitoring for Rivers and Streams per FY14 sampling and analysis plan.<br>(NPS Strategies 3.A.1) | T = Quarterly | Surface Water |
| 106 Mon-3 | 4) Effluent dependent waters<br>a) Conduct monitoring according to SAP for effluent dependent waters. | T =<br>a) 6/14 | Surface Water |
| | 5) Participate in the 2013 and 2014 National River and Stream Survey.<br>a) Conduct field work for all wadeable sites. | T =<br><br>a) 10/14 | Surface Water |

| FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| WQARF NPS in PPG {Match} | 0.17 | 8,568 | 3,770 | 5,874 | 18,212 |
| 106 Monitoring - 3 | 0.92 | 40,274 | 17,721 | 27,611 | 85,606 |
| NPS in PPG | 0.66 | 33,383 | 14,689 | 22,887 | 70,958 |
| **Contract River & Streams Sampling** | | | | | 29,000 |
| **TOTALS** | **1.75** | **82,225** | **36,180** | **56,372** | **203,776** |

| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. | | Program #4500: Surface Water Regulation | |
|---|---|---|---|
| **TASK/ GRANT** | **OUTPUT DESCRIPTION** | **EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL** | **RESPONSIBLE SECTION/ STAFF** |
| **1.3.7** | **TASK: Water Quality Assessment**<br><br>Develop Integrated Report and list of impaired waters.<br><br>**DELIVERABLES:** | | |
| PPG<br><br>NPS in PPG | 1) Final 2012 305(b) Integrated Report and 303(d)-List submittal to EPA.<br>(NPS Strategy 3.A.1) | T = 10/13 | Surface Water |
| PPG<br><br>NPS in PPG | 2) Identify list of waters that were either delisted in 2012 305(b) Assessment or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated.<br>(NPS Strategy 3.A.1 and NPS Strategy 4.A.1) | T = 2/14 | Surface Water |
| PPG<br><br>NPS in PPG | 3) Develop SP-12 or W-10 success stories.<br>(NPS Strategy 4.B.1) | T = 6/14 | Surface Water |
| PPG<br><br>NPS in PPG | 4) Develop new list of water quality improved waters. | T = 6/14 | Surface Water |

| FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| NPS in PPG | 1.12 | 57,399 | 25,256 | 39,352 | 122,006 |
| PPG | 0.46 | 23,761 | 10,455 | 16,290 | 50,506 |
| **TOTALS** | **1.58** | **81,160** | **35,711** | **55,642** | **172,512** |

| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. | | Program #4500: Surface Water Regulation | |
|---|---|---|---|
| **TASK/ GRANT** | **OUTPUT DESCRIPTION** | **EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL** | **RESPONSIBLE SECTION/ STAFF** |
| **1.3.8** | **TASK: TMDL Development and Implementation**<br><br>Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented.<br><br>DELIVERABLES: | | |
| NPS PA I<br><br>PPG<br><br>NPS in PPG | 1) TMDL Reports<br>a) Submit 6 TMDL reports to EPA for final approval by June 2014.<br>b) Complete 1st (30 day) public notice for 5 additional TMDLs by June 2014.<br>(NPS Strategy 3.B.3) See Table 1.3.8-1 | T = Semi-Annual Status Table Updates | Surface Water |
| PPG<br><br>NPS in PPG | 2) Continue data collection and analysis for TMDL development. Target is 17 TMDLs on 14 waterbody segments; see Continued TMDL Development Status Table.<br>(NPS Strategy 3.B.3) See Table 1.3.8-2 | T = Semi-Annual Status Table Updates | Surface Water |
| PPG<br><br>NPS in PPG | 3) Develop TMDL implementation plans. Target is to complete 5 implementation plans; see Develop Implementation Plans Status Table 1.3.8-4.<br>( NPS Strategy 3.B.3) | T = Semi-Annual Status Table Updates | Surface Water |
| NPS Proj 24<br><br>PPG | 4) Conduct effectiveness monitoring. Target is to monitor the remedial activities on 3 Measure W waterbodies plus 3 other waterbodies in addition to determining 319 grant effectiveness in coordination with WQIG Unit; see Effectiveness Monitoring Status Table.<br>(NPS Strategy 4.A.1) See Table 1.3.8-3 | T = Semi-Annual Status Table Updates | Surface Water |
| | 5) Provide quarterly updates to TMDL project tables with description of work completed and updates to specific milestones for projects to be completed by June 30, 2014. | T = Quarterly Updates to TMDL Project Tables | Surface Water |
| PPG | 6) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3c). | T = Monthly TMDL Conference Calls | Surface Water |

| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. | | Program #4500: Surface Water Regulation | |
|---|---|---|---|
| **TASK/ GRANT** | **OUTPUT DESCRIPTION** | **EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL** | **RESPONSIBLE SECTION/ STAFF** |
| **1.3.8** | **TASK: TMDL Development and Implementation (Cont'd)**<br><br>**DELIVERABLES:** | | |

| FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| WQFF-AZPDES NPS in PPG {Match} | 0.25 | 6,696 | 2,946 | 4,591 | 14,233 |
| WQARF NPS Proj 24 [Match] | 0.50 | 22,575 | 9,933 | 15,477 | 47,985 |
| PPG | 0.08 | 4,788 | 2,107 | 3,283 | 10,177 |
| NPS in PPG | 3.67 | 189,042 | 83,178 | 129,604 | 401,825 |
| NPS PA I (Base) | 0.33 | 18,168 | 7,994 | 12,456 | 38,618 |
| NPS Proj 24 | 0.50 | 22,575 | 9,933 | 15,477 | 47,985 |
| **Contract: MDN Monitoring** (NPS in PPG) | | | | | **14,000** |
| **Contract TMDL Sampling** (NPS in PPG) | | | | | **30,000** |
| **TOTALS** | **5.33** | **263,844** | **116,091** | **180,888** | **604,823** |

## TMDL Projects Quarterly Status
### 1.3.8 TMDL Development Table 1 – Project Completion by June 2014

| Segment (impairment) | Milestone (target) | Actual/Comments |
|---|---|---|
| Watson Lake (Nitrogen, low D.O., high pH) | 45-day AAR Notice Begins (8/1/13) | |
| | Submit final to EPA (1/1/14) | |
| Granite Creek- headwaters to Willow Creek (Low D.O., *E. coli*) | 45-day AAR Notice Begins (8/1/13) | |
| | Submit final to EPA (1/1/14) | |
| Miller Creek (*E. coli*) | Same schedule as Granite Creek TMDL | |
| Alamo Lake (Hg in Fish Tissue) | Submit final to EPA (10/1/13) | |
| Lyman Lake (Hg in Fish Tissue) | Public Comment Period Begins (7/30/13) | |
| | 45-day AAR Notice Begins (11/30/13) | |
| | Submit final to EPA (3/30/14) | |
| Parker Canyon Lake (Hg in Fish Tissue) | 45-day AAR Notice Begins (7/30/13) | |
| | Submit final to EPA (12/1/13) | |
| East Verde River- American Gulch to Verde River (AS, B) | Complete draft TMDLs (11/1/13) | |
| | Public Comment Period Begins (1/15/14) | |
| | 45-day AAR Notice Begins (5/30/14) | |
| East Verde River- Ellison Creek to American Gulch (Se) | Complete draft TMDL (11/1/13) | |
| | Public Comment Period Begins (1/15/14) | |
| | 45-day AAR Notice Begins (5/30/14) | |
| Gila River- Centennial Wash to Gillespie Dam (Se, B) | Complete draft TMDLs (10/1/13) | |
| | Public Comment Period Begins (12/15/13) | |
| | 45-day AAR Notice Begins (2/30/14) | |
| Gila River- Coyote Wash to Fortuna Wash (Se, B) | Complete draft TMDLs (10/1/13) | |
| | Public Comment Period Begins (12/15/13) | |
| | 45-day AAR Notice Begins (2/30/14) | |

| | | |
|---|---|---|
| Queen Creek- headwaters to Superior WWTP (Cu, Pb) | Complete draft TMDLs (8/1/13) | |
| | Public Comment Period Begins (12/15/13) | |
| | 45-day AAR Notice Begins (3/30/14) | |
| Queen Creek- Superior WWTP to Potts Canyon (Cu) | Same schedule as Queen Creek | |
| Queen Creek- Potts Canyon to Whitlow Dam (Cu) | Same schedule as Queen Creek | |
| Arnett Creek- Headwaters to Queen Creek (Cu) | Same schedule as Queen Creek | |
| Unnamed Trib to Queen Creek (-991) (Cu) | Same schedule as Queen Creek | |
| Unnamed Trib to Queen Creek (-1843) (Cu) | Same schedule as Queen Creek | |
| Unnamed Trib to Queen Creek (-472) (Cu) | Same schedule as Queen Creek | |

**GOAL #2: Protecting America's Waters** **Program #4500: Surface Water Regulation**
**Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems

**TASK 1.3.7: 305(b) Water Quality Assessment Report and 303(d) List**

Develop Integrated Report and list of impaired waters.

**DELIVERABLES:**

| GRANT | OUTPUT DESCRIPTION | EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL | RESPONSIBLE SECTION/ STAFF |
|---|---|---|---|
| PPG<br><br>NPS in PPG | 1) Finaize 2012-2014 305(b) Integrated Report and 303(d)-List.<br>a) 45-day AAR Notice begins<br>b) Submit 303(d) List to EPA for approval<br>Goal 1, obj. a, strategy i | T =<br><br>a) ~~7/1/14~~ 12/5/14<br>b) ~~9/26/14~~ 2/2/15 | Surface Water |
| PPG<br><br>NPS in PPG | 2) Identify waters that were either delisted or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated.<br>a) Develop list of candidate waters<br>b) Draft success stories and submit to EPA<br>Goal 4, obj. a, strategy i; Goal 4, obj. b, strategy i | T =<br><br>a) 12/14<br>b) 6/15 | Surface Water |
| PPG<br><br>NPS in PPG | 3) Begin 2016 305(b)/303(d) Report/List.<br>Goal 1, obj. a, strategy i | T = 4/16 | Surface Water |

| 1.3.7 - FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| NPS in PPG | 0.62 | 31,459 | 13,842 | 21,269 | 66,570 |
| PPG | 0.56 | 30,098 | 13,243 | 20,349 | 63,690 |
| | | | | | |
| | | | | | |
| TOTALS | 1.18 | 61,557 | 27,086 | 41,617 | 130,260 |

**GOAL #2: Protecting America's Waters** **Program #4500: Surface Water Regulation**
**Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems

**TASK 1.3.8: TMDL Development and Implementation**

Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented.

**DELIVERABLES:**

| GRANT | OUTPUT DESCRIPTION | EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL | RESPONSIBLE SECTION/ STAFF |
|---|---|---|---|
| PPG<br><br>NPS in PPG | 1) TMDL Reports<br>a) Submit 6 TMDL reports to EPA for final approval by June 2015.<br>b) Complete 1st (30 day) public notice for 5 additional TMDLs by June 2015; (*Refer to Table 1 - TMDL Development.*)<br>Goal 1, obj. c, strategy i | T = Semi-Annual Status Table Updates | Surface Water |
| PPG<br><br>NPS in PPG | 2) Continuing data collection and analysis for TMDL development. Target is 17 TMDLs on 7 waterbody segments; (*Refer to Table II - Continued TMDL Development.*)<br>Goal 1, obj. c, strategy i | T = Semi-Annual Status Table Updates | Surface Water |
| PPG<br><br>NPS in PPG | 3) Conduct effectiveness monitoring.<br>a) Monitor the remedial activities on 3 Measure W waterbodies.<br>~~b) Support WQIG Unit efforts to conduct BMP evaluations of past 319 projects as discussed in Task 1.3.9 #7.~~<br>c) Coordinate with WQIG Unit to track progress in meeting WQD Performance Measure on 5 waters.<br>d) Coordinate with NRCS to conduct effectiveness monitoring on NWQI watershed; *(Refer to Table 3 - Effectiveness Monitoring.)*<br>Goal 4, obj. a, strategies i & ii | T = Semi-Annual Status Table Updates | Surface Water |
| PPG<br><br>NPS in PPG | 4) Develop TMDL implementation plans.<br>a) Complete 1 TMDL implementation plan<br>b) Determine status of Phoenix Area Urban Lake Management Plans<br>~~c) Support and participate in updating existing WIPs and development of Santa Cruz WIP (Refer to Table 4 - Implementation Plans, Task 1.3.9 #4)~~<br>Goal 1, obj. c, strategies ii & iii | T = Semi-Annual Status Table Updates | Surface Water |

**GOAL #2: Protecting America's Waters** **Program #4500: Surface Water Regulation**
**Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems

**TASK 1.3.8: TMDL Development and Implementation (Cont'd)**

**DELIVERABLES:**

| GRANT | OUTPUT DESCRIPTION | EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL | RESPONSIBLE SECTION/ STAFF |
|---|---|---|---|
| PPG | 5) Coordinating Efforts with EPA<br>a) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3c).<br>b) Staff will participate in testing of FY 16 Pilot Measure with EPA headquarters and R9. | T = Monthly | Surface Water |
| | ~~6) Continue to implement TMDL/319 Kaizen and TMDL and Assessment Unit Staff Workout action items.~~ Duplicate reporting, see 1.3.9 #8 | T = Provide EPA with quarterly GSD updates | Surface Water |

| 1.3.8 - FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| WQFF-AZPDES NPS in PPG (Match) | 0.04 | 2,533 | 1,115 | 1,713 | 5,360 |
| PPG | 0.48 | 31,082 | 13,676 | 21,014 | 65,772 |
| NPS in PPG | 2.70 | 146,746 | 64,568 | 99,212 | 310,526 |
| WQARF NPS in PPG (Match) | 0.66 | 28,384 | 12,489 | 19,190 | 60,063 |
| | | | | | |
| | | | | | |
| Contract: TMDL Sampling (WQARF) | | | | | 34,000 |
| Contract: TMDL Sampling (PPG) | | | | | 35,000 |
| Contract: TMDL Sampling (NPS in PPG) | | | | | 10,000 |
| Contract: TMDL Sampling (NPS P&A Base) | | | | | 24,000 |
| Contract: TMDL Sampling (NPS P&A Incre) | | | | | 6,000 |
| **TOTALS** | **3.88** | **208,745** | **91,848** | **141,129** | **550,721** |

**TMDL Projects Quarterly Status**

**1.3.8 Table 1 – TMDL Development Project Completion by June 2015**

| Segment (impairment) | Milestone (target) | Actual/Comments |
|---|---|---|
| Watson Lake (nutrients, high pH, low D.O.) | 45-day AAR Notice begins (12/12/14)<br>45-day AAR Notice ends (1/26/15)<br>Submit final report to EPA (2/7/15) | |
| Granite Creek- headwaters to Willow Creek (Low D.O., *E. coli*) | 30-day public comment period ends (11/12/15)<br>45-day AAR Notice begins (3/6/15)<br>Submit final report to EPA (5/4/15) | |
| Miller Creek (*E. coli*) | Same schedule as Granite Creek *E. coli* TMDL | |
| Manzanita Creek (*E. coli*) | Same schedule as Granite Creek *E. coli* TMDL | |
| Butte Creek (*E. coli*) | Same schedule as Granite Creek *E. coli* TMDL | |
| Lyman Lake (Hg in fish tissue) | Complete Data Summary Report (10/1/14) | |
| Alamo Lake (Hg in fish tissue) | Complete Data Summary Report (2/27/15) | |
| Parker Canyon | Finalize Data Summary Report (12/19/14) | |
| Queen Creek- headwaters to Superior WWTP (Cu, Pb) | Public Comment Period begins (3/6/15) | |
| | ~~45-day AAR Notice begins (1/15/15)~~ | |
| Queen Creek- Superior WWTP to Potts Canyon (Cu) | Same schedule as Queen Creek | |
| Queen Creek- Potts Canyon to Whitlow Dam (Cu) | Same schedule as Queen Creek | |
| Arnett Creek- Headwaters to Queen Creek (Cu) | Same schedule as Queen Creek | |
| Unnamed Trib to Queen Creek (-991) (Cu) | Same schedule as Queen Creek | |
| Unnamed Trib to Queen Creek (-1843) (Cu) | Same schedule as Queen Creek | |
| Unnamed Trib to Queen Creek (-472) (Cu) | Same schedule as Queen Creek | |
| Pinto Creek- headwaters to Ripper Spring* (Cu) | Complete Draft TMDL Report (12/5/14) | |
| | Public comment period begins (2/2/15) | |
| | 45-day AAR Notice begins (5/29/15) | |
| Pinto Creek- Ripper Spring to Roosevelt Lake* (Cu) | Same schedule Pinto Creek above | |
| Gibson Mine Tributary - Headwaters to Pinto Creek* (Cu) | Same schedule Pinto Creek above | |
| Five Point Mountain- Headwaters to Pinto Creek* (Cu) | Same schedule Pinto Creek above | |
| Gila River-Centennial Wash to Gillespie Dam (Se, B) | Public comment period begins (12/8/14) | |
| | 45-day AAR Notice begins (4/17/15) | |

*completion dependent upon adoption of Pinto Creek site specific copper standard

**TMDL Projects Quarterly Status**

**1.3.8 Table 2 – Continued TMDL Analysis and Development**

| Segment | Impairment | Purpose | Comments |
|---|---|---|---|
| Mule Gulch- headwaters to Above Lavender Pit | Cu | Coordinated monitoring with FMI to determine current WQ status | |
| Mule Gulch- Above Lavender Pit to Bisbee WWTP | Cu, pH | Coordinated monitoring with FMI to determine current WQ status | |
| Mule Gulch- WWTP to Highway Bridge | Cd, Cu, pH, Zn | Coordinated monitoring with FMI to determine current WQ status | |
| Brewery Gulch- headwaters to Mule Gulch | ~~pH~~ Cu | Coordinated monitoring with FMI to determine current WQ status | |
| Gila River-Coyote Wash to Fortuna Wash | Se, B | Complete delist report (9/1/14) | |
| East Verde River-American Gulch to Verde River | As | Complete draft TMDL or delist report (10/1/14) | |
| Big Bug Creek Watershed Project | Metals | Complete data summary report (12/31/14) | |
| Santa Cruz River WIP (includes 3 impaired reaches) | *E. coli* | Monitor as needed to support development of WIP | |

**TMDL Projects Quarterly Status**
**1.3.8 Table 3 – Effectiveness Monitoring**

| Segment | Impairment | Purpose | Comments |
|---|---|---|---|
| Boulder Creek | As, Cu, Zn | Measure W/WQD PM | |
| Pinto Creek | Cu | Measure W/WQD PM | |
| Turkey Creek | Cu, Pb | Measure W/WQD PM | |
| Tonto and Christopher Creeks | Nitrogen and *E. coli* | WQD PM | |
| Upper Little Colorado River | Turbidity | WQD PM/NWQI | |
| San Pedro NWQI watershed | *E. coli* | NWQI | |
| Additional WQD PM waters as warranted | | WQD PM | |

Measure W- 2002 Baseline Waters
WQD PM- Water Quality Division Performance Measure
NWQI- NRCS National Water Quality Initiative

**TMDL Projects Quarterly Status**
**1.3.8 Table 4 –Implementation Plans**

| Segment | Comments |
|---|---|
| Determine status of Phoenix Area Urban Lake Management Plans- develop or implement as needed | |
| Queen Creek (multiple reaches, 1 TIP) | |

**GOAL #2: Protecting America's Waters** **Program #4500: Surface Water Regulation**
**Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems

**TASK 1.3.9: NPS Base Program Management and 319(h) Project Management**

Plan, manage and implement a Nonpoint Source Pollution Program, including the development of watershed management and watershed implementation plans.

**DELIVERABLES:**

| GRANT | OUTPUT DESCRIPTION | EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL | RESPONSIBLE SECTION/ STAFF |
|---|---|---|---|
| NPS in PPG | 1) Provide technical support to watershed groups and other entities to address NPS pollutant impacts and conduct education/outreach efforts to increase public awareness of NPS impacts to surface and groundwater resources.<br>a) Statewide: Participate in education events to present on nonpoint source issues upon request. Provide ADEQ data/assistance with data interpretation and address public questions or concerns as requested.<br>b) Targeted Watersheds: Partner with other state and federal programs to provide watershed-specific education about BMPs that both protect water quality and provide other benefits to land owners/managers.<br>c) Provide maps and GIS assistance to internal and external customers assisting with local sampling and volunteer training efforts.<br>Goal 1, obj b; Goal 3, obj b; Goal 4, obj a, strategy i; | T = As requested<br>a) T = As requested<br>b) T = 5/15<br>c) T = As requested | Surface Water / |
| NPS in PPG | 2) Provide oversight of existing partnership agreements with other state and Federal agencies. Update as necessary to better reflect NPS - Management Plan goals. FY14 efforts will focus on:<br>a) Coordinating with NRCS to conduct effectiveness monitoring in NWQI watersheds and update target watershed recommendations as needed. *(Also see Task 1.3.8)*<br>b) Coordinate with ADOA and ASLD on the Hillside Mine lower tailings pile remediation project.<br>i) MOU<br>ii) Access agreements<br>iii) Design phase<br>iv) Construction phase<br>c) Updating existing MOU with Arizona Game & Fish<br>Goal 2, obj a, strategy vii; Goal 3, obj c, strategy i | T =<br>a) Ongoing<br>b) Ongoing<br>c) 9/14 | Surface Water |

**GOAL #2: Protecting America's Waters** **Program #4500: Surface Water Regulation**
**Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems

**TASK 1.3.9: NPS Base Program Management and 319(h) Project Management (Cont'd)**

**DELIVERABLES:**

| GRANT | OUTPUT DESCRIPTION | EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL | RESPONSIBLE SECTION/ STAFF |
|---|---|---|---|
| NPS in PPG | 3) Update the Impaired Waters Improvement Table to reflect the most recent assessment and listing information, funding priorities and partnerships.<br>Goal 1, obj b, strategy i; Goal 4, obj b, strategy i | T.= 9/14 | Surface Water |
| NPS in PPG | 4) Watershed Planning and Implementation (*Refer to Table 1.3.9: Status of Targeted Watershed Activities.*)<br>a) Santa Cruz watershed plan development<br>i) Finalize sampling plan with WIC<br>ii) Initiate preliminary watershed surveys and data collection activities<br>iii) Initial draft of watershed plan submitted to EPA for comment<br>b) Granite Creek watershed plan update<br>i) Submit draft update to EPA for comment<br>ii) Submit final update to EPA for approval<br>4a: Goal 1, obj c, strategy ii; 4b: Goal 1, obj c, strategy iii | T =<br><br><br><br>ai) 7/14<br>aii) 8/14<br><br>aiii) 6/15<br><br><br>bi) 4/15<br>bii) 6/15 | Surface Water |
| NPS Proj 24<br><br>PPG | 5) Solicit, evaluate and select WQIG applications.<br>a) WQIG Cycle 15<br>i) Technical Review and applicant presentations<br>ii) Final evaluation and funding recommendations<br>iii) Develop and execute grant agreements<br>iv) Perform preliminary site visits and collect data to assess pre-implementation site and water quality conditions<br>b) WQIG Cycle 16<br>i) Conduct scoping meetings in targeted watersheds to encourage the development of WIP implementation projects.<br>ii) Release Cycle 16 RFGA<br>iii) Develop and conduct grant workshops and other types of outreach for grants, including providing technical assistance and training to improve the quality of grant proposal submissions<br>Goal 2, obj b, strategy i; Goal 3, obj b, strategy i; Goal 3, obj b, strategy ii | T =<br><br>ai) 7/14<br><br>aii) 8/14<br><br>aiii) 9/14<br>aiv) 10/14<br><br><br><br>bi) 4/15<br><br><br><br>bii) 5/15<br>biii) 6/15 | Surface Water Director |

**GOAL #2: Protecting America's Waters** **Program #4500: Surface Water Regulation**
**Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems

**TASK 1.3.9: NPS Base Program Management and 319(h) Project Management (Cont'd)**

**DELIVERABLES:**

| GRANT | OUTPUT DESCRIPTION | EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL | RESPONSIBLE SECTION/ STAFF |
|---|---|---|---|
| NPS in PPG | 6) Oversee previously awarded 319 projects and contracts.<br>a) Approve reporting and reimbursement requests for active projects.<br>b) Oversee UA contracts to:<br>i) Conduct watershed modeling to assist in identifying WQIP subwatersheds.<br>ii) Provide technical and educational support to targeted watersheds and assist in WQIP and Volunteer Monitoring Program development.<br>iii) Provide load reduction data for WQIG projects addressing nitrogen, phosphorus and sediment issues, as well as other load reduction estimates as applicable.<br>Goal 2, obj b, strategy ii; Goal 3, obj b, strategies i & ii; Goal 4, obj b, strategy i | T =<br>a) Ongoing<br>bi) 9/14<br>bii) 6/15<br>biii) 2/15 | Surface Water |
| NPS in PPG | 7) Coordinate with TMDL Unit to conduct BMP effectiveness evaluations and monitoring on past WQIG projects. *(For additional information see Task 1.3.8 #3.)*<br>a) Develop list of projects and associated monitoring needs for FY15 based on waters identified in *Task 1.3.8 Table 3*; initiate evaluations.<br>b) Coordinate with TMDL Unit to track progress in meeting WQD Performance Measure on 5 waters.<br>Goal 4, obj a, strategy i | T =<br>a) T= semi-annual table updates<br>b) 6/15 | Surface Water |
| | 8) Continue to Implement TMDL/319 Kaizen and Grants & Outreach Unit Staff Workout action items.<br>Goal 1, obj b, strategy i; Goal 1, obj c, strategy ii; Goal 3, obj b, strategy i; Goal 3, obj b, strategy iii | T = Provide EPA with quarterly updates | Surface Water |

**GOAL #2: Protecting America's Waters** **Program #4500: Surface Water Regulation**
**Objective 2.2**: Protect & Restore Watersheds & Aquatic Ecosystems

**TASK 1.3.9: NPS Base Program Management and 319(h) Project Management (Cont'd)**

**DELIVERABLES:**

| GRANT | OUTPUT DESCRIPTION | EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL | RESPONSIBLE SECTION/ STAFF |
|---|---|---|---|
| NPS PA I<br><br>PPG | 9) Report on NPS program progress and successes.<br>a) Submit annual NPS report in accordance with EPA's annual reporting requirements outlined in NPS Program and Grants Guidelines for States & Territories.<br>i) Submit draft for EPA review and comment<br>ii) Submit final report<br>b) Participate in monthly teleconferences with EPA Region 9 to discuss NPS program activities.<br>c) Coordinate with TMDL Unit to document success of implementation in Measure W watersheds (see *Task 1.3.8 # 3*).<br>d) Report project activities and input load reduction information into GRTS database.<br>i) Input load reduction data for federal FY15 implementation projects into GRTS<br>ii) Input all mandated elements for FY 15-awarded projects into GRTS; upload final reports for all projects closed out during FY15.<br>iii) Attend annual GRTS meeting and regional GRTS training (as scheduled).<br>Goal 4, obj. b | T =<br><br>ai) 7/14<br>aii) 9/14<br>b) Monthly<br><br>c) Semi-annual table updates.<br><br>di) 2/15<br>dii) 6/15<br>diii) As scheduled | Surface Water |

| 1.3.9 - FTE Funding Source | FTE | Personnel | ERE | Indirect | Total |
|---|---|---|---|---|---|
| NPS in PPG | 4.77 | 237,447 | 104,477 | 160,533 | 502,457 |
| NPS P&A (Base) | 0.15 | 8,395 | 3,694 | 5,676 | 17,764 |
| NPS Proj 24 | 0.25 | 13,991 | 6,156 | 9,459 | 29,606 |
| WQARF NPS in PPG (Match) | 1.25 | 62,500 | 27,500 | 42,255 | 132,255 |
| PPG | 0.50 | 18,924 | 8,327 | 12,794 | 40,045 |
| | | | | | |
| Aid to Orgs. NPS Projects (NPS Proj 25) | | | | | 1,247,500 |
| Santa Cruz Watershed (NPS Proj 25) | | | | | 20,000 |
| TOTALS | 6.92 | 341,257 | 150,153 | 230,717 | 1,989,626 |

### 1.3.9 STATUS OF TARGETED WATERSHED ACTIVITIES

| Targeted Watershed & Pollutant(s) of Concern | Projects | Project Exp. Date | Project Status & Comments |
|---|---|---|---|
| Santa Cruz River Watershed<br>Nogales Wash (Mexico border to Potrero Creek) - ammonia, chlorine, dissolved copper, *E. coli*<br>Potrero Creek (I19 to SC River) – dissolved oxygen, *E. coli*<br>SC River (Nogales WWTP to Josephine Canyon) – ammonia, *E. coli*<br>SC River (Josephine Canyon to Tubac Bridge) – ammonia, *E. coli* | Watershed plan development | | |
| Granite Creek Watershed<br>Granite Creek ( Headwaters to Watson Lake) - nutrients and *E. coli* | | | |
| Oak Creek Watershed<br>Oak Creek (– Headwaters to Spring Creek) - *E. coli*<br>Spring Creek – *E. coli* | | | |
| San Francisco/Blue River Watershed<br>SF River (Blue River to Limestone Gulch) - *E. coli*<br>SF River (Limestone Gulch to Gila River) – *E. coli*<br>Blue River (Strayhorse Creek - San Francisco River) – *E. coli* | | | |
| Little Colorado River Headwaters Watershed<br>LCR (West Fork LCR to Lyman Lake) - sediment/turbidity | | | |
| San Pedro River Watershed<br>SP River (Babocomari Creek to Dragoon Wash) - *E. coli* | | | |

### 1.3.8 TMDL Development Table 2 – Continued TMDL Analysis and Development

| Segment | Impairment | Comments |
|---|---|---|
| Bear Canyon Lake | Low pH | |
| Rose Canyon Lake | Low pH | |
| Cortez Lake | Low D.O., high pH | |
| Pinto Creek- headwaters to Ripper Spring* | Cu | |
| Pinto Creek- Ripper Spring to Roosevelt Lake* | Cu | |
| Haunted Canyon- Headwaters to Pinto Creek* | Cu | |
| Five Point Mountain- Headwaters to Pinto Creek* | Cu | |
| Mule Gulch- headwaters to Above Lavender Pit* | Cu | |
| Mule Gulch- Above Lavender Pit to Bisbee WWTP* | Cu, pH | |
| Mule Gulch- WWTP to Highway Bridge* | Cd, Cu, pH, Zn | |
| Brewery Gulch- headwaters to Mule Gulch* | pH | |
| Boulder Creek- Tributary at 344114/1131800 to Wilder Creek | Be | |
| Big Bug Creek Watershed Project | Metals | |
| Cherry Creek Watershed Project | Metals | |

*- continued site-specific standard development

### 1.3.8 TMDL Implementation Table 3– Effectiveness Monitoring

| Segment | Impairment | Comments |
|---|---|---|
| Boulder Creek* | As, Cu, Zn | |
| Pinto Creek* | Cu | |
| Turkey Creek* | Cu, Pb | |
| Tonto and Christopher Creeks | Nitrogen and *E. coli* | |
| Little Colorado River | Turbidity | |
| Participate in 319 Grant effectiveness monitoring | Various | |

*- Measure W watersheds

### 1.3.8 TMDL Implementation Table 4– Develop Implementation Plans

| Segment | Comments |
|---|---|
| Alamo Lake(1 TIP) | |
| Lyman Lake(1 TIP) | |
| Parker Canyon Lake (1 TIP) | |
| Cortez Lake (1 TIP) | |
| Lower Gila River (2 reaches, 2 TIPs) | |
| Queen Creek (multiple reaches, 1 TIP) | |
| Pinto Creek (multiple reaches, 1 TIP) | |